Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Division

Name of Work: Construction of CC drains and Development works in ward no 02

					Estimate Cost Rs.			300.00 Lakhs	
Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	Basic rate	130.00							
	Area weightage 6%	7.80							
	Sub total	137.80							
	8km Lead (2*1.28*8)	**20.48**							
	Loading & Unloading	**57.00**							
	Total	**215.28**							
	For Drain								
	Ward no. 02								
	Ramanshree Apartment								
	Main Road	2	520.00	1.05	1.00	1092.00			
	Prakruthi Layout								
	Main Road	2	174.00	1.05	0.90	328.86			
	Harohalli								
	5th cross	1	320.00	1.05	0.90	302.40			
	Cross 2	1	83.00	1.05	0.90	78.44			
	Naidu Layout								
	7th cross, cross 5	1	35.00	1.00	0.90	31.50			
	7th cross, cross 1	1	160.00	1.05	0.90	151.20			
	7th cross, cross 2	1	160.00	1.05	0.90	151.20			
	7th cross, cross 3	2	160.00	1.05	0.90	302.40			
	5th Phase								
	Main Road	1	54.00	1.05	0.90	51.03			
	Culvert	16	6.50	1.30	1.00	135.20			
						2624.23	**Cum**	**215.28**	**564943.16**
2	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications, MORTH specifications No. 408, (P.No.13, I.No.4-1.2 of PW,P&IWTD S.R 2018-19)								
	Basic rate	5194.00							
	Area weightage 6%	311.64							
	Total	**5505.64**							
	For Drain								
	Ward no. 02								
	Ramanshree Apartment								
	Main Road	2	520.00	1.05	0.15	163.80			
	Prakruthi Layout								

	Main Road	2	174.00	1.05	0.15	54.81			
	Harohalli								
	5th cross	1	320.00	1.05	0.15	50.40			
	Cross 2	1	83.00	1.05	0.15	13.07			
	Naidu Layout								
	7th cross, cross 5	1	35.00	0.90	0.15	4.73			
	7th cross, cross 1	1	160.00	1.05	0.15	25.20			
	7th cross, cross 2	1	160.00	1.05	0.15	25.20			
	7th cross, cross 3	2	160.00	1.05	0.15	50.40			
	5th Phase								
	Main Road	1	54.00	1.05	0.15	8.51			
	Culvert	16	6.50	1.30	0.15	20.28			
						416.39	**Cum**	**5505.64**	**2292507.20**
3	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (P.No.14, I.No.4.11 of PW, P&IWTD S.R 2018-19)								
	Basic rate	5659.00							
	Area weightage 6%	339.54							
	Total	**5998.54**							
	For Drain								
	Raft								
	Ward no. 02								
	Ramanshree Apartment								
	Main Road	2	520.00	0.90	0.15	140.40			
	Prakruthi Layout								
	Main Road	2	174.00	0.90	0.15	46.98			
	Harohalli								
	5th cross	1	320.00	0.90	0.15	43.20			
	Cross 2	1	83.00	0.90	0.15	11.21			
	Naidu Layout								
	7th cross, cross 5	1	35.00	0.75	0.15	3.94			
	7th cross, cross 1	1	160.00	0.90	0.15	21.60			
	7th cross, cross 2	1	160.00	0.90	0.15	21.60			
	7th cross, cross 3	2	160.00	0.90	0.15	43.20			
	5th Phase								
	Main Road	1	54.00	0.90	0.15	7.29			
	Wall								
	Ward no. 02								
	Ramanshree Apartment								
	Main Road	4	520.00	0.15	0.60	187.20			
	Prakruthi Layout								
	Main Road	4	174.00	0.15	0.60	62.64			
	Harohalli								
	5th cross	2	320.00	0.15	0.60	57.60			

	Cross 2	2	83.00	0.15	0.75	18.68			
	Naidu Layout								
	7th cross, cross 5	2	35.00	0.15	0.60	6.30			
	7th cross, cross 1	2	160.00	0.15	0.60	28.80			
	7th cross, cross 2	2	160.00	0.15	0.60	28.80			
	7th cross, cross 3	4	160.00	0.15	0.60	57.60			
	5th Phase								
	Main Road	2	54.00	0.15	0.60	9.72			
	Culvert- Raft	16	6.50	1.20	0.20	24.96			
	Culvert-Wall	32	6.50	0.20	0.60	24.96			
						846.67	**Cum**	**5998.54**	**5078768.87**
4	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (I No-4.31,P No-15)								
	Basic rate	358.00							
	Area weightage 6%	21.48							
	Total	**379.48**							
	For Drain								
	Wall								
	Ward no. 02								
	Ramanshree Apartment								
	Main Road	8	520.00		0.60	2496.00			
	Prakruthi Layout								
	Main Road	8	174.00		0.60	835.20			
	Harohalli								
	5th cross	4	320.00		0.60	768.00			
	Cross 2	4	83.00		0.75	249.00			
	Naidu Layout								
	7th cross, cross 5	4	35.00		0.60	84.00			
	7th cross, cross 1	4	160.00		0.60	384.00			
	7th cross, cross 2	4	160.00		0.60	384.00			
	7th cross, cross 3	8	160.00		0.60	768.00			
	5th Phase								
	Main Road	4	54.00		0.60	129.60			
	Culvert-Wall	64	6.50		0.60	249.60			
						6347.40	**Sqm**	**379.48**	**2408711.35**
5	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	69804.00							
	Area weightage 6%	4188.24							
	Total	**73992.24**							
	For Drain								
	For Drain - 60Kg/Cum		796.75	60.00		47.80			

	For Culvert - 90Kg/Cum		49.92	90.00		4.49			
						52.30	**Tn**	**73992.24**	**3869620.27**
6	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M25 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Data rate	2337.00							
	For Drain								
	Ward no. 02								
	Ramanshree Apartment								
	Main Road	2	520.00	0.90		936.00			
	Prakruthi Layout								
	Main Road	2	174.00	0.90		313.20			
	Harohalli								
	5th cross	1	320.00	0.90		288.00			
	Cross 2	1	83.00	0.90		74.70			
	Naidu Layout								
	7th cross, cross 5	1	35.00	0.75		26.25			
	7th cross, cross 1	1	160.00	0.90		144.00			
	7th cross, cross 2	1	160.00	0.90		144.00			
	7th cross, cross 3	2	160.00	0.90		288.00			
	5th Phase								
	Main Road	1	54.00	0.90		48.60			
						2262.75	**Sqm**	**2337.00**	**5288046.75**
7	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M25 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Data rate	5418.00							
	Culvert	16	6.50	1.20		124.80			
	5th Phase, only slabs	3	14.00	1.20		50.40			
						175.20	**Sqm**	**5418.00**	**949233.60**
8	KSRRB M300-14. **Excavation for roadwork** in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 (Page No143., I.No.19.14 of KPWD S.R 2018-19).								
	Basic rate	41.00							
	6.00% AW	2.46							
	Sub total	43.46							
	8km Lead (2*1.28*8)	**20.48**							
	Total	**63.94**							
	Naidu Layout								
	7th cross, cross 1	1	160.00	5.40	0.30	259.20			
	cross road	1	25.00	5.20	0.30	39.00			
	5th cross, cross 1	1	45.00	3.60	0.30	48.60			
	5th cross, cross 2	1	83.00	1.50	0.30	37.35			
	Nagenahalli								
	Cross 2	1	40.00	2.50	0.30	30.00			
	Cross Road-1	1	40.00	5.20	0.30	62.40			

	Cross Road-3	1	35.00	5.60	0.30	58.80			
						535.35	**Cum**	**63.94**	**34,230.28**
9	**Construction of granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. (Page No 153., I.No.20.5 of KPWD S.R 2018-19).								
	Basic rate	1882.00							
	6.00% AW	112.92							
	Sub total	**1994.92**							
	Naidu Layout								
	7th cross, cross 1	1	160.00	5.40	0.15	129.60			
	cross road	1	25.00	5.20	0.15	19.50			
	5th cross, cross 1	1	45.00	3.60	0.15	24.30			
	5th cross, cross 2	1	83.00	1.50	0.15	18.68			
	Nagenahalli								
	Cross 2	1	40.00	2.50	0.15	15.00			
	Cross Road-1	1	40.00	5.20	0.15	31.20			
	Cross Road-3	1	35.00	5.60	0.15	29.40			
						267.68	**Cum**	**1994.92**	**533990.21**
10	KSRRB 300-46. Scarifying by mechanical means stone metal crust 50mm to 100mm thick by along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM complete as per specifications. MORTH / Chapter 3 (P.No.146 I.No.19.52) KPWD SR 2018-19								
	Basic rate	39.00							
	6.00% AW	2.34							
	Sub total	**41.34**							
	Prakruthi Layout								
	Cross A	1	125.00	5.00		625.00			
	Cross 1	1	55.00	4.60		253.00			
	Cross 2	1	115.00	4.60		529.00			
	Cross 3	1	130.00	4.80		624.00			
	Cross 4	1	110.00	5.00		550.00			
	Cross 5	1	60.00	5.00		300.00			
	Cross B	1	20.00	5.00		100.00			
						2981.00	**Sqm**	**41.34**	**123234.54**
11	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.155 I.No.20.18) KPWD SR 2018-19								
	Basic rate	1888.00							
	6.00% AW	113.28							
	Sub total	**2001.28**							
	Naidu Layout								
	7th cross, cross 1	1	160.00	5.40	0.20	172.80			
	cross road	1	25.00	5.20	0.20	26.00			

	5th cross, cross 1	1	45.00	3.60	0.20	32.40			
	5th cross, cross 2	1	83.00	1.50	0.20	24.90			
	Nagenahalli								
	Cross 2	1	40.00	2.50	0.20	20.00			
	Cross Road-1	1	40.00	5.20	0.20	41.60			
	Cross Road-3	1	35.00	5.60	0.20	39.20			
	Prakruthi Layout								
	Cross A	1	125.00	5.00	0.20	125.00			
	Cross 1	1	55.00	4.60	0.20	50.60			
	Cross 2	1	115.00	4.60	0.20	105.80			
	Cross 3	1	130.00	4.80	0.20	124.80			
	Cross 4	1	110.00	5.00	0.20	110.00			
	Cross 5	1	60.00	5.00	0.20	60.00			
	Cross B	1	20.00	5.00	0.20	20.00			
						953.10	**Cum**	**2001.28**	**1907419.97**
12	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V revision (P.No.158/It No.21.6) KPWD SR 2018-19								
	Basic rate	28.00							
	6.00% AW	1.68							
	Sub total	**29.68**							
	Naidu Layout								
	For DBM								
	7th cross, cross 1	1	160.00	5.40		864.00			
	cross road	1	25.00	5.20		130.00			
	5th cross, cross 1	1	45.00	3.60		162.00			
	5th cross, cross 2	1	83.00	1.50		124.50			
	Nagenahalli								
	Cross 2	1	40.00	2.50		100.00			
	Cross Road-1	1	40.00	5.20		208.00			
	Cross Road-3	1	35.00	5.60		196.00			
	Prakruthi Layout								
	Cross A	1	125.00	5.00		625.00			
	Cross 1	1	55.00	4.60		253.00			
	Cross 2	1	115.00	4.60		529.00			
	Cross 3	1	130.00	4.80		624.00			
	Cross 4	1	110.00	5.00		550.00			
	Cross 5	1	60.00	5.00		300.00			
	Cross B	1	20.00	5.00		100.00			
						4765.50	**Sqm**	**29.68**	**141440.04**
13	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision. - do - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.160 It.No.21.17.6) KPWD SR 2018-19								
	Basic rate	6470.00							
	6.00% AW	388.2							

	Sub total	**6858.2**							
	Naidu Layout								
	7th cross, cross 1	1	160.00	5.40	0.05	43.20			
	cross road	1	25.00	5.20	0.05	6.50			
	5th cross, cross 1	1	45.00	3.60	0.05	8.10			
	5th cross, cross 2	1	83.00	1.50	0.05	6.23			
	Nagenahalli								
	Cross 2	1	40.00	2.50	0.05	5.00			
	Cross Road-1	1	40.00	5.20	0.05	10.40			
	Cross Road-3	1	35.00	5.60	0.05	9.80			
	Prakruthi Layout								
	Cross A	1	125.00	5.00	0.05	31.25			
	Cross 1	1	55.00	4.60	0.05	12.65			
	Cross 2	1	115.00	4.60	0.05	26.45			
	Cross 3	1	130.00	4.80	0.05	31.20			
	Cross 4	1	110.00	5.00	0.05	27.50			
	Cross 5	1	60.00	5.00	0.05	15.00			
	Cross B	1	20.00	5.00	0.05	5.00			
						238.28	**Cum**	**6858.20**	**1634137.61**
14	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications. Clause 503 of MORTH V revision. (P.No.158 & I.No.21.7) KPWD SR 2018-19								
	Basic rate	12.00							
	6.00% AW	0.72							
	Sub total	**12.72**							
	For BC								
	Naidu Layout								
	7th cross, cross 1	1	160.00	5.40		864.00			
	cross road	1	25.00	5.20		130.00			
	5th cross, cross 1	1	45.00	3.60		162.00			
	5th cross, cross 2	1	83.00	5.00		415.00			
	Nagenahalli								
	Cross 2	1	40.00	5.50		220.00			
	Cross Road-1	1	40.00	5.20		208.00			
	Cross Road-3	1	35.00	5.60		196.00			
	Prakruthi Layout								
	Cross A	1	125.00	5.00		625.00			
	Cross 1	1	55.00	4.60		253.00			
	Cross 2	1	115.00	4.60		529.00			
	Cross 3	1	130.00	4.80		624.00			
	Cross 4	1	110.00	5.00		550.00			
	Cross 5	1	60.00	5.00		300.00			
	Cross B	1	20.00	5.00		100.00			
						5176.00	**Sqm**	**12.72**	**65,838.72**

15	KSRRB M500-19. Providing and laying **bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision. - do - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen (P.No.162 Item No.21.22.6)								
	Basic rate	7464.00							
	6.00% AW	447.84							
	Sub total	**7911.84**							
	Naidu Layout								
	7th cross, cross 1	1	160.00	5.40	0.03	25.92			
	cross road	1	25.00	5.20	0.03	3.90			
	5th cross, cross 1	1	45.00	3.60	0.03	4.86			
	5th cross, cross 2	1	83.00	5.00	0.04	16.60			
	Nagenahalli								
	Cross 2	1	40.00	5.50	0.04	8.80			
	Cross Road-1	1	40.00	5.20	0.03	6.24			
	Cross Road-3	1	35.00	5.60	0.03	5.88			
	Prakruthi Layout								
	Cross A	1	125.00	5.00	0.03	18.75			
	Cross 1	1	55.00	4.60	0.03	7.59			
	Cross 2	1	115.00	4.60	0.03	15.87			
	Cross 3	1	130.00	4.80	0.03	18.72			
	Cross 4	1	110.00	5.00	0.03	16.50			
	Cross 5	1	60.00	5.00	0.03	9.00			
	Cross B	1	20.00	5.00	0.03	3.00			
						161.63	**Cum**	**7911.84**	**1278790.70**
16	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (P.No.182 & I.No.24.15) KPWD SR 2018-19								
	Basic rate	429.00							
	6.00% AW	25.74							
	Sub total	**454.74**							
	Naidu Layout								
	7th cross, cross 1	2	160.00	0.10		32.00			
	cross road	2	25.00	0.10		5.00			
	5th cross, cross 1	1	45.00	0.10		2.25			
	5th cross, cross 2	2	83.00	0.10		16.60			
	Nagenahalli								
	Cross 2	2	40.00	0.10		8.00			
	Cross Road-1	2	40.00	0.10		8.00			
	Cross Road-3	2	35.00	0.10		7.00			
	Prakruthi Layout								
	Cross A	2	125.00	0.10		25.00			
	Cross 1	2	55.00	0.10		11.00			

	Cross 2	2	115.00	0.10		23.00			
	Cross 3	2	130.00	0.10		26.00			
	Cross 4	2	110.00	0.10		22.00			
	Cross 5	2	60.00	0.10		12.00			
	Cross B	2	20.00	0.10		4.00			
						201.85	Sqm	580.71	117216.31
								Total Construction Cost	26288129.57
								12% GST	3154575.55
								DPR and PMC Charges	557000.00
								Sub Total	29999705.12
								Miscellaneous & Rounding off	294.88
								GRAND TOTAL	30000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019 and Data Rates

Assistant Engineer
Ward No-02
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka Sub Division
BBMP Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore

TECHNICALLY SANCTIONED FOR Rs. 3,00,00,000
Rupees Three Crores only
Under P.3158 (SIP Infrastructure Project Works)
Registered as CE ( ) No. 9 9
Subject to conditions contained in enclosed memo EE ( ) No. /91
Dt. 07/03/19 Estimate A/ Sanctioned
Page no. 45 pl. No. 309
Dated 07/03/2019 Rs.

Chief Engineer

Administrative Sanction for Rs. 6.00 lakhs
six lakhs only
is accorded under head P3158 (SIP Infrastructure project works)
Registered as CE No. ..... Subject to conditions contained in enclosed memo No. EE/YHK/AS/99/2019-20 Dt. 7-3-2020

Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE									
Name of Work: Construction of CC drains and Development works in ward no 01									
					Estimate Cost Rs.			300.00 Lakhs	
Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	Basic rate	130.00							
	6% AW	7.80							
	Sub Total-1	137.80							
	8km Lead (2*1.28*8)	**20.48**							
	Loading & Unloading	**57.00**							
	Sub Total	**215.28**							
	Culverts	4	6.00	1.40	1.10	36.96			
	Surabhi Layout								
	2nd Cross Road	1	45.00	1.00	1.00	45.00			
	2nd Main Road	1	108.00	1.00	1.00	108.00			
	Surabhi Layout	2	30.00	1.00	1.00	60.00			
	2nd Main (Indian Gas near)	2	20.00	1.00	1.00	40.00			
	Apartment Road, Left side	1	185.00	1.00	1.00	185.00			
	Desilt								
	Apartment Road, Rigt side	1	185.00	0.50	0.50	46.25			
	Balaji Apartment Road	1	145.00	0.50	0.50	36.25			
	Culverts	6	8.00	1.40	1.20	80.64			
	GKVK Layout								
	Jakkur main road to Radiant jasmin apartment	2	225.00	1.00	1.00	450.00			
	Jadegowda House Road	2	60.00	1.00	0.90	108.00			
	Vivek Marble road 1	2	285.00	1.00	0.90	513.00			
	Vivek Marble road 2	2	65.00	1.00	0.90	117.00			
						1826.10	**Cum**	**215.28**	**393122.81**
2	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications, MORTH specifications No. 408, (P.No.13, I.No.4-1.2 of PW,P&IWTD S.R 2018-19)								
	Basic rate	5194.00							
	6% AW	311.64							
	Sub Total	**5505.64**							
	For RCC Drain								
	Culverts	4	6.00	1.30	0.15	4.68			
	Surabhi Layout								
	2nd Cross Road	1	45.00	1.00	0.15	6.75			
	2nd Main Road	1	108.00	1.00	0.15	16.20			
	Surabhi Layout	2	30.00	1.00	0.15	9.00			
	2nd Main (Indian Gas near)	2	20.00	1.00	0.15	6.00			
	Apartment Road, Left side	1	185.00	1.00	0.15	27.75			
	Balaji Apartment Road	1	0.00	1.00	0.15	0.00			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Culverts	6	8.00	1.30	0.15	9.36			
	GKVK Layout								
	Jakkur main road to Radiant jasmin apartment	2	225.00	1.00	0.15	67.50			
	Jadegowda House Road	2	60.00	1.00	0.15	18.00			
	Vivek Marble road 1	2	285.00	1.00	0.15	85.50			
	Vivek Marble road 2	2	65.00	1.00	0.15	19.50			
						270.24	**Cum**	**5505.64**	**1487844.15**
3	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (P.No.14, I.No.4.11 of PW, P&IWTD S.R 2018-19)								
	Basic rate	5659.00							
	6% AW	339.54							
	Sub Total	**5998.54**							
	Raft								
	For RCC Drain								
	Culvers	4	6.00	1.20	0.15	4.32			
	Surabhi Layout					0.00			
	2nd Cross Road	1	45.00	0.90	0.15	6.08			
	2nd Main Road	1	108.00	0.90	0.15	14.58			
	Surabhi Layout	2	30.00	0.90	0.15	8.10			
	2nd Main (Indian Gas near)	2	20.00	0.90	0.15	5.40			
	Apartment Road, Left side	1	185.00	0.90	0.15	24.98			
	Balaji Apartment Road	1	0.00	0.90	0.15	0.00			
	Culverts	6	8.00	1.20	0.15	8.64			
	GKVK Layout								
	Jakkur main road to Radiant jasmin apartment	2	225.00	0.90	0.15	60.75			
	Jadegowda House Road	2	60.00	0.90	0.15	16.20			
	Vivek Marble road 1	2	285.00	0.90	0.15	76.95			
	Vivek Marble road 2	2	65.00	0.90	0.15	17.55			
	Wall								
	For RCC Drain								
	Culverts	8	6.00	0.25	0.70	8.40			
	Surabhi Layout								
	2nd Cross Road	2	45.00	0.15	0.70	9.45			
	2nd Main Road	2	108.00	0.15	0.70	22.68			
	Surabhi Layout	4	30.00	0.15	0.70	12.60			
	2nd Main (Indian Gas near)	4	20.00	0.15	0.70	8.40			
	Apartment Road, Left side	2	185.00	0.15	0.70	38.85			
	Balaji Apartment Road	2	0.00	0.15	0.70	0.00			
	Culverts	12	8.00	0.25	0.70	16.80			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	GKVK Layout								
	Jakkur main road to Radiant jasmin apartment	4	225.00	0.15	0.70	94.50			
	Jadegowda House Road	4	60.00	0.15	0.70	25.20			
	Vivek Marble road 1	4	285.00	0.15	0.75	128.25			
	Vivek Marble road 2	4	65.00	0.15	0.75	29.25			
						637.92	**Cum**	**5998.54**	**3826588.64**
4	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (I No-4.31,P No-15)								
	Basic rate	358.00							
	6% AW	21.48							
	Sub Total	**379.48**							
	Wall								
	For RCC Drain								
	Culverts	16	6.00		0.70	67.20			
	Surabhi Layout								
	2nd Cross Road	4	45.00		0.70	126.00			
	2nd Main Road	4	108.00		0.70	302.40			
	Surabhi Layout	8	30.00		0.70	168.00			
	2nd Main (Indian Gas near)	8	20.00		0.70	112.00			
	Apartment Road, Left side	4	185.00		0.70	518.00			
	Balaji Apartment Road	4	0.00		0.70	0.00			
	Culverts	24	8.00		0.70	134.40			
	GKVK Layout								
	Jakkur main road to Radiant jasmin apartment	8	225.00		0.70	1260.00			
	Jadegowda House Road	8	60.00		0.70	336.00			
	Vivek Marble road 1	8	285.00		0.75	1710.00			
	Vivek Marble road 2	8	65.00		0.75	390.00			
						5124.00	**Sqm**	**379.48**	**1944455.52**
5	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 (I No-28.8.2,P No-229) PWD SR 2018-19								
	Basic rate	68233.00							
	6% AW	4093.98							
	Sub Total	**72326.98**							
	For RCC Drain								
	For Drain 60kg/cum		599.76	60.00		35.99			
	For Culvert 80kg/cum		38.16	80.00		3.05			
						39.04	**Tn**	**72326.98**	**2823529.58**
6	Providing 10 cm thick precast slab made of M20 including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate								

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	data rate	2337.00							
	Sub Total	**2337.00**							
	For RCC Drain								
	Surabhi Layout								
	2nd Cross Road	1	45.00	0.90		40.50			
	2nd Main Road	1	108.00	0.90		97.20			
	Surabhi Layout	2	30.00	0.90		54.00			
	2nd Main (Indian Gas near)	2	20.00	0.90		36.00			
	Apartment Road, Left side	1	185.00	0.90		166.50			
	Balaji Apartment Road	1	0.00	0.90		0.00			
	GKVK Layout								
	GKVK Tank Road & Park Side Road	2	155.00	0.90		279.00			
	Jadegowda House Road	2	60.00	0.90		108.00			
	Vivek Marble road 1	2	285.00	0.90		513.00			
	Vivek Marble road 2	2	65.00	0.90		117.00			
	Missing Slabs	140	0.90	0.60		75.60			
						1486.80	**sqm**	**2337.00**	**3474651.60**
7	Providing 250 mm thick precast slab made of M25 including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate								
	Data rate	5418.00							
	Sub Total	**5418.00**							
	For RCC Culvert								
	Lake View Layout			1.62					
	Culverts	4	6.00	1.20		28.80			
	Surabhi Layout								
	Culverts	6	8.00	1.20		57.60			
						86.40 96.40	**sqm**	**5418.00**	**468115.20**
8	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 (Page No143., I.No.19.14 of KPWD S.R 2018-19).								
	Basic rate	41.00							
	6.00% AW	2.46							
	Sub total	43.46							
	8km Lead (2*1.28*8)	**20.48**							
	Total	**63.94**							
	For Road								
	GKVK Layout								
	Balaji Apartment Road	1	145.00	7.00	0.35	355.25			
	Jakkur main road to Radiant jasmin apartment	1	210.00	7.00	0.35	514.50			
	4th Cross Road	1	63.00	6.40	0.35	141.12			
	3rd Cross Road	1	80.00	6.40	0.35	179.20			
	2nd Cross Road	1	80.00	6.30	0.35	176.40			
	1st Cross Road	1	95.00	6.40	0.35	212.80			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Vivek Marble road 1	1	285.00	3.50	0.35	349.13			
	Vivek Marble road 2	1	75.00	7.00	0.35	183.75			
	Surabi layout								
	Apartment Road, Left side	1	200.00	6.10	0.35	427.00			
	Apartment Road, Left side	1	200.00	6.10	0.35	427.00			
						2966.15	**Cum**	**63.94**	**189655.31**
9	KSRRB 300-35: compaction of original ground by mechanical means including filling in depression occurring curing roling including cost of all labour, HOM of machinery complete as per specificatation. Morth chapter 3, (P.No. 147, I.No.19.64 of PwD, P&IWTD S.R.2018-29)								
	Basic rate	6.00							
	6% AW	0.36							
	Sub Total	**6.36**							
	For Road								
	GKVK Layout								
	Balaji Apartment Road	1	145.00	7.00		1015.00			
	Jakkur main road to Radiant jasmin apartment	1	210.00	7.00		1470.00			
	4th Cross Road	1	63.00	6.40		403.20			
	3rd Cross Road	1	80.00	6.40		512.00			
	2nd Cross Road	1	80.00	6.30		504.00			
	1st Cross Road	1	95.00	6.40		608.00			
	Vivek Marble road 1	1	285.00	3.50		997.50			
	Vivek Marble road 2	1	75.00	7.00		525.00			
	Surabi layout								
	Apartment Road, Left side	1	200.00	6.10		1220.00			
	Apartment Road, Left side	1	200.00	6.10		1220.00			
						8474.70	**sqm**	**6.36**	**53899.09**
10	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. (Page No 153., I.No.20.5 of KPWD S.R 2018-19).								
	Basic rate	1882.00							
	6% AW	112.92							
	Sub Total	**1994.92**							
	For Road								
	GKVK Layout								
	Balaji Apartment Road	1	145.00	7.00	0.15	152.25			
	Jakkur main road to Radiant jasmin apartment	1	210.00	7.00	0.15	220.50			
	4th Cross Road	1	63.00	6.40	0.15	60.48			
	3rd Cross Road	1	80.00	6.40	0.15	76.80			
	2nd Cross Road	1	80.00	6.30	0.15	75.60			
	1st Cross Road	1	95.00	6.40	0.15	91.20			
	Vivek Marble road 1	1	285.00	3.50	0.15	149.63			
	Vivek Marble road 2	1	75.00	7.00	0.15	78.75			
	Surabi layout								

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Apartment Road, Left side	1	200.00	6.10	0.15	183.00			
	Apartment Road, Left side	1	200.00	6.10	0.15	183.00			
						1271.21	**Cum**	**1994.92**	**2535952.28**
11	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.155 I.No.20.18) KPWD SR 2018-19								
	Basic rate	1888.00							
	6% AW	113.28							
	Sub Total	**2001.28**							
	For Road								
	GKVK Layout								
	Balaji Apartment Road	1	145.00	7.00	0.15	152.25			
	Jakkur main road to Radiant jasmin apartment	1	210.00	7.00	0.15	220.50			
	4th Cross Road	1	63.00	6.40	0.15	60.48			
	3rd Cross Road	1	80.00	6.40	0.15	76.80			
	2nd Cross Road	1	80.00	6.30	0.15	75.60			
	1st Cross Road	1	95.00	6.40	0.15	91.20			
	Vivek Marble road 1	1	285.00	3.50	0.15	149.63			
	Vivek Marble road 2	1	75.00	7.00	0.15	78.75			
	Surabi layout								
	Apartment Road, Left side	1	200.00	6.10	0.15	183.00			
	Apartment Road, Left side	1	200.00	6.10	0.15	183.00			
						1271.21	**Cum**	**2001.28**	**2544037.14**
12	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 (P.No-158, I.No-21.6)								
	Basic rate	28.00							
	6% AW	1.68							
	Sub Total	**29.68**							
	For Road								
	GKVK Layout								
	Balaji Apartment Road	1	145.00	7.00		1015.00			
	Jakkur main road to Radiant jasmin apartment	1	210.00	7.00		1470.00			
	4th Cross Road	1	63.00	6.40		403.20			
	3rd Cross Road	1	80.00	6.40		512.00			
	2nd Cross Road	1	80.00	6.30		504.00			
	1st Cross Road	1	95.00	6.40		608.00			
	Vivek Marble road 1	1	285.00	3.50		997.50			
	Vivek Marble road 2	1	75.00	7.00		525.00			
	Surabi layout								
	Apartment Road, Right Side	1	200.00	6.00		1200.00			
	Apartment Road, Left side	1	200.00	6.10		1220.00			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
						8454.70	**sqm**	**29.68**	**250935.5**
13	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 (P.No-158, I.No-21.7)								
	Basic rate	12.00							
	6% AW	0.72							
	Sub Total	**12.72**							
	For Road								
	GKVK Layout								
	Balaji Apartment Road	1	145.00	7.00		1015.00			
	Jakkur main road to Radiant jasmin apartment	1	210.00	7.00		1470.00			
	4th Cross Road	1	63.00	6.40		403.20			
	3rd Cross Road	1	80.00	6.40		512.00			
	2nd Cross Road	1	80.00	6.30		504.00			
	1st Cross Road	1	95.00	6.40		608.00			
	Vivek Marble road 1	1	285.00	7.00		1995.00			
	Vivek Marble road 2	1	75.00	7.00		525.00			
	Surabi layout								
	Apartment Road, Right side	1	200.00	6.10		1220.00			
	Apartment Road, Left side	1	200.00	6.10		1220.00			
						9472.20	**sqm**	**12.72**	**120486.38**
14	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160, I.No-21.17.6)								
	Basic rate	6470.00							
	6% AW	388.20							
	Sub Total	**6858.20**							
	For Road								
	GKVK Layout								
	Balaji Apartment Road	1	145.00	7.00	0.05	50.75			
	Jakkur main road to Radiant jasmin apartment	1	210.00	7.00	0.05	73.50			
	4th Cross Road	1	63.00	6.40	0.05	20.16			
	3rd Cross Road	1	80.00	6.40	0.05	25.60			
	2nd Cross Road	1	80.00	6.30	0.05	25.20			
	1st Cross Road	1	95.00	6.40	0.05	30.40			
	Vivek Marble road 1	1	285.00	7.00	0.05	99.75			
	Vivek Marble road 2	1	75.00	7.00	0.05	26.25			
	Surabi layout								
	Apartment Road, Right side	1	200.00	6.10	0.05	61.00			
	Apartment Road, Left side	1	200.00	6.10	0.05	61.00			
						473.61	**Cum**	**6858.20**	**3248112.10**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
15	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen (P.No-162, I.No-21.22.6)								
	Basic rate	7464.00							
	6% AW	447.84							
	Sub Total	**7911.84**							
	For Road								
	GKVK Layout								
	Balaji Apartment Road	1	145.00	7.00	0.03	30.45			
	Jakkur main road to Radiant jasmin apartment	1	210.00	7.00	0.04	58.80			
	4th Cross Road	1	63.00	6.40	0.03	12.10			
	3rd Cross Road	1	80.00	6.40	0.03	15.36			
	2nd Cross Road	1	80.00	6.30	0.03	15.12			
	1st Cross Road	1	95.00	6.40	0.03	18.24			
	Vivek Marble road 1	1	285.00	7.00	0.04	79.80			
	Vivek Marble road 2	1	75.00	7.00	0.04	21.00			
	Surabi layout								
	Apartment Road, Right side	1	200.00	6.10	0.04	48.80			
	Apartment Road, Left side	1	200.00	6.10	0.04	48.80			
						348.47	**Cum**	**7911.84**	**2757007.24**
16	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (P.No-182, I.No-24.15) SR-2018-19								
	Basic rate	429.00							
	6% AW	25.74							
	Sub Total	**454.74**							
	For Road								
	Surabi layout								
	Apartment Road, Right side	2.5	200.00	0.10		50.00			
	Apartment Road, Left side	2.5	200.00	0.10		50.00			
	GKVK Layout								
	Balaji Apartment Road	2.5	145.00	0.10		36.25			
	Jakkur main road to Radiant jasmin apartment	2.5	210.00	0.10		52.50			
	4th Cross Road	2.5	63.00	0.10		15.75			
	3rd Cross Road	2.5	80.00	0.10		20.00			
	2nd Cross Road	2.5	80.00	0.10		20.00			
	1st Cross Road	2.5	95.00	0.10		23.75			
	Vivek Marble road 1	2.5	285.00	0.10		71.25			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Vivek Marble road 2	2.5	75.00	0.10		18.75			
						358.25	sqm	454.74	162910.
								Total	26281303.
								Add GST @ 12%	3153756.
								DPR & PMC Charge-2%	564000.
								Sub Total	29999059.
								Miscellaneous & Rounding off	940.4
	GRAND TOTAL								30000000.

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, and Data Rates.

Assistant Engineer
Ward No-01
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka Sub Division
BBMP Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore

TECHNICALLY SANCTIONED FOR Rs. 3,00,00,0
Rupees Three Cores only
Under P-3158 (SIP Infrastructu
Project Works)
Registered as CE ( ) No. 9 9
Subject to conditions contained in
enclosed memo EE ( ) No. /9/
Dt. 07/03/2019 Estimate A/ Sanctioned
Page no 45 SL No. 310
Dated 07/03/2019 Rs. 3,00,00,000

Chief Engineer